

User's Manual

1U Rack Mount 50W Power Supply

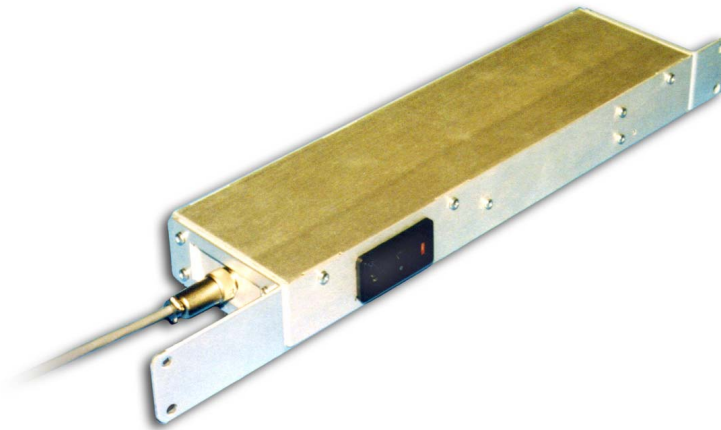
1U Rack Mount 75W Power Supply

PS-1U-1250-PFC

PS-1U-1275-PFC

Manual P/N: 01-507

Ver. 1.2



Please take a moment to record the the following information. Should the need arise to contact General Digital™ regarding your 1U Power Supply, you will need to reference this information. The model number/serial number label is affixed to the top of your supply.

Model Number: _____

Serial Number: _____

Date Received: _____

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The PS-1U-1250-PFC and PS-1U-1275-PFC are designed to complement General Digital's™ sliding rack mount LCD monitors (Rack Mount/Hinge™ and SlimLine 1U™) by providing a low profile (1U) power source for commercial and industrial applications. These power supplies are intended to be installed behind the LCD monitor by attaching directly to the rear of a standard 19" rack (RETMA). This ingenious design conserves valuable rack space by mounting the total solution (LCD monitor and power supply) in the same rack slice.

The standard configuration includes a filtered AC socket and a 4' DC cable terminated with General Digital's™ standard power connector. Output power is +12 VDC @ 4.3 amps for the 50 watt supply, while the 75 watt supply puts out +12 VDC @ 6.3 amps. The power factor for both units is 0.95 (typ.).

The rugged enclosures are constructed of 0.063" aluminum and the finish is clear iridite.

Also available are power supplies with various other ratings.

Please feel welcome to consult with a General Digital™ Sales Engineer for additional information, or visit our web site: <http://www.GeneralDigital.com>.

Please take a moment to ensure that you have received the following items. Report any discrepancies immediately.

One (1) of the following 1U Rack Mount Power Supplies:

PS-1U-1250-PFC

PS-1U-1275-PFC

One (1) Set of Mounting Hardware

One (1) Documentation CD with **User's Manuals** and **Calibration & Setup Guides** in PDF format; and Adobe® Acrobat® Reader software, which is used for viewing the documentation

One (1) Shipping Container

Also included will be any options and/or accessories you ordered with your monitor. Please refer to the packing slip for a complete listing of items shipped.

IMPORTANT!

Please save your custom-designed shipping container for warranty returns as needed. Shipping in an unauthorized container may result in further damage to the equipment and void the warranty.

300-010-001

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NOTES:

- THE ACCESSORIES KIT CONTAINS THE FOLLOWING ITEMS:
 - (1) USERS MANUAL - P/N 01-507
 - (1) LONG RACK MOUNTING BRACKET - P/N 45-236
 - (1) SHORT RACK MOUNTING BRACKET - P/N 45-237
 - (8) SCREWS - 6-32 UNC-2A W/STAR LOCK WASHERS - P/N 62-106
 - (1) AC POWER CORD - 6' 7\"
 - (1) DC POWER CORD - 6' LONG - P/N 200-003-002
 - ** (1) FUSE, 3AG 2 AMP SLO-BLO, 250V - P/N 61-001
- TORQUE DOWN THE SCREWS TO 10 in lb.
- THE BRACKETS CAN BE INSTALLED AS SHOWN DEPENDING ON THE INSTALLATION.

MECHANICAL OUTLINE ONLY

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

APPROVALS

DATE

DRAWN

C.P.

29-Jan-02

CHECKED

T.R.

29-Jan-02

APPROVED

B.G.

29-Jan-02

DO NOT SCALE

DRAWING

GENERAL DIGITAL

The Innovators of Flat Panel Display Technology

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(860) 282-2900

www.GenDig.com

ACCESSORIES KIT

1U POWER SUPPLY

CAGE CODE

1JA77


DWG. NO.

02-12

REV

-

** - THE FUSE IS A SPARE FOR SINGLE PHASE OPERATION OF A SECOND FOR DUAL PHASE OPERATION. (SEE THE USERS MANUAL FOR PROPER USE.)



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The Innovators of Flat Panel Technology

1U Rack Mount 50W/75W Power Supply User's Manual

DC Power Input Connector: 6-pin Circular

	<u>Enclosure</u>	<u>Mating Connector</u>
GD Part Number:	30-356	30-357
Manufacturer:	Hirose	Hirose
Manufacturer P/N:	RM12BRD-6S	RM12BPG-6PH



30-356



30-357

PIN NUMBER	SIGNAL
1	+12 VDC
2	+12 VDC
3	Ground
4	Ground
5	—
6	—

FAILURE	CAUSE	SOLUTION
No Power	Power Switch is Off	Ensure that power switch is turned to the ON (I) position.
No Power	Blown Fuse	Verify that fuse is good and of the proper amperage.
No Power or Intermittent Power	Loose or No Connection	Verify that AC line cord is fully seated in power supply connector and wall outlet. Verify that LCD power cable is fully seated and all locking connectors are locked. Check cable for damage.
If no problems are found, contact the General Digital Service Department for a Return Material Authorization (RMA).		

	PS-1U-1250-PFC	PS-1U-1275-PFC
INPUT		
Voltage	85–264 VAC	85–264 VAC
Current	0.8 A typ. (AC IN 100V) 0.4 A typ. (AC IN 200V)	1.2 A typ. (AC IN 100V) 0.6 A typ. (AC IN 200V)
Frequency	47–63 Hz	47–63 Hz
Power Factor	0.95 typ.	0.95 typ.
OUTPUT		
Voltage	+12 VDC	+12 VDC
Current	4.3 Amps	6.3 Amps
CONNECTORS		
AC Power	AC Socket (IEC-320-C14)	AC Socket (IEC-320-C14)
DC Power	6-pin Circular Locking; Attached to 4' Cable	6-pin Circular Locking; Attached to 4' Cable
MECHANICAL		
Dimensions (H x W x D)	1.75" x 19.0" (w/brackets) x 3.875"	1.75" x 19.0" (w/brackets) x 3.875"
Construction	0.063" Aluminum	0.063" Aluminum
Finish	Clear Iridite	Clear Iridite
Weight (Operating)	3 lbs.	3 lbs.
ENVIRONMENTAL		
Temperature (Operating)	–10° to 65° C	–10° to 65° C
Temperature (Storage)	–20° to 75° C	–20° to 75° C
Humidity (Operating)	20% to 90% RH Non-condensing	20% to 90% RH Non-condensing
Humidity (Storage)	20% to 90% RH Non-condensing	20% to 90% RH Non-condensing
Altitude (Operating)	10,000 feet	10,000 feet
Altitude (Storage)	30,000 feet	30,000 feet

Specifications subject to change without notice or obligation.

For complete specifications, please download the data sheet from our web site at <http://www.GeneralDigital.com> or inquire with a Sales Engineer.

GENERAL DIGITAL™ CORPORATION

(hereinafter Seller)

Standard Terms and Conditions of Sales

1. Acknowledgment and acceptance of any order by seller is expressly limited to and made conditional upon the terms and conditions contained herein. Any of the buyer's terms and conditions which are in addition to or different from those contained herein and which are not separately agreed to in writing (except additional provisions specifying quality, character of the products ordered, and shipping instructions) are hereby objected to and shall be of no effect. The buyer shall be deemed to have assented to all terms and conditions contained herein if any part of the products described herein is accepted.

2. ENTIRE AGREEMENT. This instrument contains the entire and only agreement between the parties hereto relating to the subject matter hereof, and any representation, affirmation of fact, and course of prior dealings, promise or condition in connection, therewith, or usage of the trade not incorporated herein, shall not be binding on either party. The rights and obligations contained herein shall inure to and be bind upon the parties, their legal representatives, successors, and permitted assigns.

3. WARRANTY. Seller warrants that upon delivery to the Buyer, the product sold thereunder shall be free of defects in materials and workmanship and that such product shall substantially conform to the specifications provided by Seller. This Warranty commences on the date of delivery to the Buyer unless another time for commencement has been negotiated between Seller and Buyer prior to such delivery. Should the product be delivered through a third party (UPS, USPS, Federal Express, etc.) the warranty period shall commence on the date that such third party receives the product unless another time for commencement has been negotiated between Seller and Buyer prior to such delivery. The duration of the Warranty shall be one (1) year from the date of delivery as set forth above. This Warranty shall be effective only if Seller receives notice of such defects in materials and workmanship during the period of the Warranty stated above. After Seller receives such notice, Buyer shall obtain a Return Material Authorization (hereafter RMA) number. To obtain an RMA number, Buyer shall contact Seller's Customer Service Department, with the model number(s), serial number(s), and original purchase order number(s) of the product or products. Buyer shall include a brief description of the problem or failure mode experienced. Buyer shall mark the outside of the package containing the product or products, conspicuously, with the letters RMA and the number assigned by Seller. Any packaged returned without RMA and the RMA number clearly visible will be rejected at Seller's receiving dock. After Buyer has provided notice and obtained the appropriate RMA number, Buyer shall return the product, upon request, to General Digital™ Corporation, 8 Nutmeg Road South, South Windsor, CT 06074, not later than thirty (30) days after Seller's receipt of notice of the alleged problem or failure mode. Buyer shall prepay all transportation charges for return of the product(s) to Seller. Seller shall pay for the cost of sending the product(s) back to Buyer. Transportation charges to Buyer shall be deemed Best Way and any other transportation charges shall be at the Buyer's cost. All costs of customs clearance, shipping, and any other related charges for transportation outside of the contiguous 48 United States shall be at the Buyer's expense. After Buyer's compliance, Seller shall, at Seller's option, repair or replace the product(s). Excluded from this Warranty are all problems or failures resulting from:

- » Improper or inadequate maintenance of the product by the Buyer.
- » Unauthorized modification of the product by any means.
- » Operation of the product outside its environmental specifications.

- » Neglect, misuse, or abuse of the product.
- » Modification or integration with other components not covered by a Seller warranty when such integration increases the likelihood of problems, failures, or damage.

Further, this warranty is between seller and buyer only, and does not extend to buyer's customers or users of buyer's products. In addition, and in the event that buyer integrates seller's product with components manufactured or supplied by any other company, this warranty shall only relate to defects in materials and workmanship of seller's product and not to problems with or failures of seller's product caused by other components integrated with it. Seller's rendering of technical advice and/or assistance or Seller's performance of service work in connection with Buyer's order of the product(s) shall not change or enhance this warranty in any way. Buyer's reliance on Seller's skill or judgment to select or furnish suitable goods shall be at Buyer's risk.

Seller shall not be liable for any direct, indirect, special incidental, or consequential damages including, but not limited to, loss of profits and/or destruction of other property, caused by any application of the product(s) and/or its integration with other components. Seller's liability shall be limited to the amount paid by the Buyer for the product(s).

The aforementioned remedies are in lieu of and exclude all others. Buyer assumes all other risks and liabilities for loss, damages or injury, whether or not caused by Seller's negligence, to persons or property and arising out of, connected with, or resulting from, the use of Seller's products or services either alone or in combination with other products or services.

Seller specifically excludes any and all other warranties, written or oral, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose.

4. SPECIAL PRODUCTS. The following provisions are to be considered a part of all Special Product Acknowledgments and Orders. Special Product orders are those calling for products not contained in Seller's current catalog and price list, or those requiring modifications to catalog products or those requiring sample, environmental, mechanical or life testing, 100% reliability screening, quality conformance qualifications, or any combination thereof. These provisions supersede any part of the other clauses relating to the same project.

A. Delivery dates are best estimates only and are subject to (1) Receipt by Seller of order and negotiated specifications containing, where applicable, all quoted waivers and/or exceptions, (2) successful, first time passage of products submitted to electrical performance test, to environmental and/or life test processing required by applicable specifications.

B. Seller assumes no responsibility for, refund or replacement of products shipped at the Buyer's request prior to successful completion of acceptance and/or qualification test performed by Seller, except those subject only to Buyer's incoming visual inspection.

5. PATENTS. Seller shall defend any suit or proceeding which is based on a claim that any products or part thereof, furnished under this contract constitutes an infringement of any valid United States patent, if notified promptly in writing and given authority, information and assistance for the defense or settlement of same. In case said product, or part thereof, is in such suit held to constitute infringement and the use of said product or part is enjoined, then Seller shall at its own expense and at its option, either procure for the Buyer the right to continue using said product or part, or replace same with non-infringing comparable products, or modify it so it becomes non-infringing, or refund the purchase price thereof. The foregoing states the entire liability of Seller for patent infringement by said product or part thereof.

6. TERMS OF PAYMENT. Payment terms for sales within the USA are Net Thirty (30) days from date of shipment. International sales require a Letter of Credit on a US Bank prior to shipment from Seller.

7. TITLE AND DELIVERY. All shipments within the 48 contiguous United States by Seller shall be F.O.B. point of shipment. Title to hardware products and risk of loss pass to Buyer upon delivery to carrier at shipping point. Buyer shall pay all transportation and storage charges. Seller will select the carrier if Buyer does not. Claims for shortages must be made with Ten (10) days after receipt of the order.

8. CONTINGENCIES. Seller shall not be responsible for any failure to perform due to unforeseen circumstances or to causes beyond its control. Examples of such causes are acts of God, War, Riot, Embargoes, Acts of Civil or Military Authorities, Fire, Floods, Accidents, Strikes or Shortages of Transportation, Facilities, Fuel, Energy, Labor or Materials. Seller may defer delivery for a period equal to the delay caused by such contingency.

9. CANCELLATION.

A. Default. If Buyer defaults, Seller may decline to make further shipments and/or may terminate Buyer's order without affecting Seller's rights and remedies including, but not limited to, any right to cancellation and bill-back charges. If Seller continues to make shipments after Buyer default, action shall not constitute a waiver nor affect Seller's legal remedies.

B. Cancellation - Standard Products. Buyer is responsible for one hundred percent (100%) payment if any order scheduled for delivery within thirty (30) days is canceled. Upon written notice to Seller, Buyer may cancel any order for standard products scheduled for shipment beyond thirty (30) days after Seller receives Buyer's cancellation notice. Buyer shall be liable for any applicable bill-back charges resulting from such cancellation. Buyer shall also pay, as a rescheduling/ restocking charge, twenty-five percent (25%) of the price specified on order sheet for each canceled product unless Buyer reschedules the order for delivery within one hundred twenty days (120) days.

C. Cancellation - Custom Products. If Buyer cancels orders for products containing design, markings, packaging or other specifications unique to Buyer, Buyer shall pay the following cancellation charges in addition to any applicable bill-back charges.

Percentage of Purchase Price to be Paid Upon Cancellation Notice	Number of Days Before Scheduled Delivery that Written Cancellation is Received
100	0-30
75	31-60
50	61-90
20	91-120

10. CONTROLLING LAW. This Agreement shall be governed by, subject to, and construed according to the laws of the State of Connecticut. For purposes of applying to Connecticut law, this Agreement shall be deemed to have entered into and wholly performed in Connecticut. Buyer warrants, and it is a condition of this acknowledgment, that Buyer has complied, and will continue to comply with applicable laws, regulations, and order of the United States Government, and of any state or political subdivision thereof, including all statutes, regulations, and directives that are applicable to Buyer's purchase thereunder. Without limiting the foregoing, Buyer further warrants that they have complied with all applicable provisions of the Fair Labor Standards Act of 1938, as amended; and all regulations and orders issued by the US Department of Labor, as well as US export regulations including, but not limited to, the International Trafficking and Arms Regulations (ITAR). Buyer further agrees to defend, indemnify and hold Seller harmless from and against claims, losses, damages, costs and expenses that may be sustained by reason of Buyer's failure to meet any of the above requirements.

11. PROPRIETARY RIGHTS AND CONFIDENTIALITY.

A. Rights in any and all of Seller's information, know-how, trademarks, data, trade secrets, inventions, patents, plans, drawings, specifications, processes, designs, etc., whether or not acquired or reduced to practice during the course or as a result of this order, shall remain the property of Seller and Seller shall not be obligated to provide any of such property to Buyer. Buyer shall obtain no rights in any of such property and the price charged shall include no consideration for such property unless specifically so stated on the face of Seller's Standard Terms and Conditions of Sale. Listing as a separate line item and separately billing for Non-Recurring Engineering (Engineering Services) does not accrue to Buyer rights in any of the aforementioned property of Seller unless specifically stated on the face of Seller's Standard Terms and Conditions of Sale.

B. Buyer acknowledges that propriety property of Seller is a valuable business asset of Seller and that unauthorized use or disclosure of such would result in irreparable damage to Seller. Buyer agrees that it will:

- » use proprietary information of Seller only for the purposes intended and necessitated by this order, not otherwise use or disclose any proprietary information of Seller without Seller's express informed written consent;
- » take all reasonable precautions to insure protection against use or disclosure;
- » and return, at Seller's request, all proprietary property of Seller which is in the possession or control of Buyer.

C. Any data, information, specifications, processes, drawings, designs, plans, know-how, etc. of Buyer supplied to Seller in conjunction with this order must be considered free from proprietary restrictions unless expressly agreed otherwise in writing signed by and authorized by an officer of General Digital™ Corporation.

Appropriate Usage Policy 12

General Digital™ Corporation components should not be used in medical devices with life support functions, safety equipment (or similar applications where component failure would result in loss of life or physical harm), aerospace equipment, telecommunication equipment (trunk lines) or nuclear power control equipment. Contact a General Digital™ representative before using General Digital™ devices for any applications other than those recommended by General Digital™. General Digital™ assumes no responsibility for any damage resulting from the use of a General Digital™ device which does not comply with the instructions and precautions specified in this manual.

We want you to be completely satisfied with your product. Please feel welcome to contact us should you require any of our services.

General Digital™ Corporation
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South Windsor, CT 06074

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Fax: 860.282.2244

Hours: Monday–Friday, 9:00 A.M.–5:00 P.M. EST

Web: <http://www.GeneralDigital.com>

Sales

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E-mail: gd_mn@GeneralDigital.com

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Phone: 860.282.2900, Option 4
Fax: 860.282.0198
E-mail: service@GeneralDigital.com

In your correspondence with the Service Department, please provide the following information:

- » Company name
- » Company address
- » Contact name
- » Contact phone and fax numbers

In most cases, you can expect to receive a reply within one business day.